

CHROMOSOME STUDIES IN THE SOUTHERN AFRICAN FLORA: 4-6

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4. *ALOE COOPERI* Baker

CHROMOSOME NUMBER: $2n = 14$ (Figs 1a, b).

ORIGIN OF MATERIAL: Umzumbe, Natal (Collection C.G. Vosa 411). Fielding-Druce herbarium accession no. 411 C.G.V. (OXF).

METHOD OF PREPARATION: Root tip material. Colchicine pretreatment, Feulgen/Acetic orcein staining.

OBSERVATIONS: A strongly bimodal karyotype, with small terminal satellites on one pair of the larger chromosomes.

5. *ALOE HUMILIS* (L.) Mill.

CHROMOSOME NUMBER: $2n = 14$ (Figs 2a, b).

ORIGIN OF MATERIAL: Hankey, Port Elizabeth (Collection C.G. Vosa 385). Fielding-Druce herbarium accession no. 385 C.G.V. (OXF).

METHOD OF PREPARATION: As in 4.

OBSERVATIONS: In the particular plant examined the largest pair of the smaller chromosomes was heteromorphic.

6. *ALOE VARIEGATA* L.

CHROMOSOME NUMBER: $2n = 14$ (Figs 3a, b).

ORIGIN OF MATERIAL: Oudtshoorn, C.P. Rhodes University herbarium accession no. 24835 (RUH).

METHOD OF PREPARATION: As in 4.

OBSERVATIONS: Small terminal satellites are present on two of the chromosome pairs. The chromosome count agrees with that reported by Snode (1951), but the chromosome morphology differs in that the latter worker reported satellites as being present on only one chromosome pair.

REFERENCES

SNOAD, B., 1951. Chromosome numbers of succulent plants. *Heredity* 5: 279-283.

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1a



FIG. 1A.

A. cooperi, somatic metaphase. Bar represents 10 μ

1b

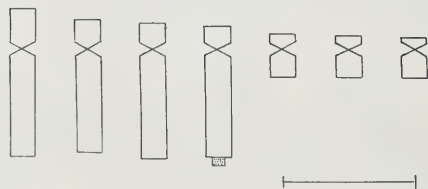


FIG. 1B.

A. cooperi, haploid chromosome complement. Bar represents 10 μ , stippling indicates satellite region.

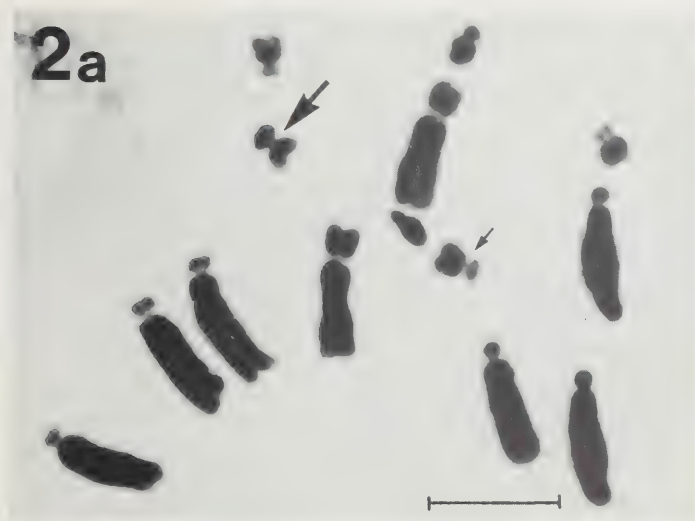


FIG. 2A.

A. humilis, somatic metaphase. Bar represents 10 μ . Large and small arrows represent respectively the normal and variant types of the heteromorphic small chromosome.

2b

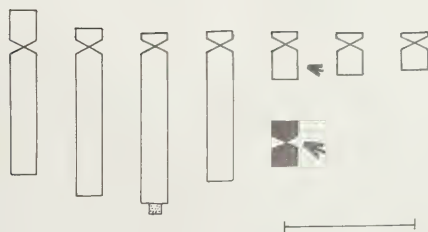


FIG. 2B.

A. humilis, haploid chromosome complement. Bar represents 10 μ , stippling indicates satellite region. Large and small arrows indicate respectively the normal and variant types of the heteromorphic small chromosome.

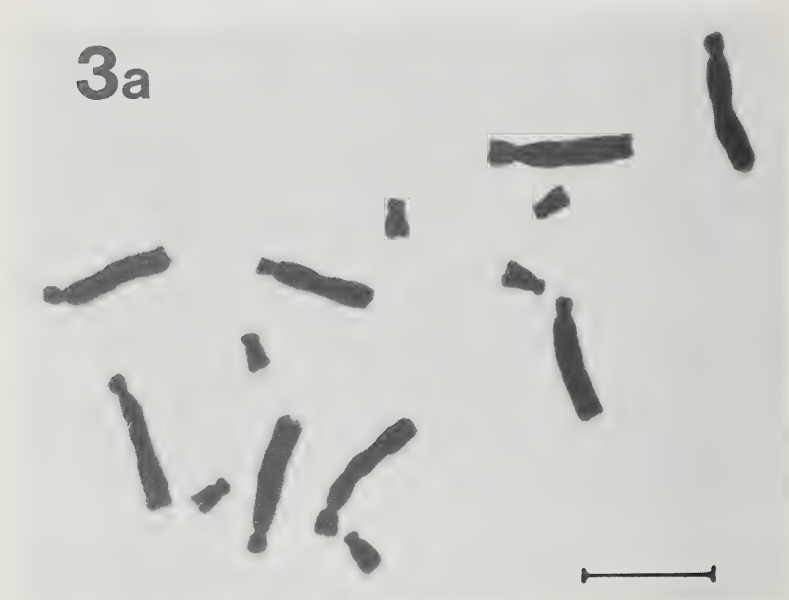


FIG. 3A.
A. variegata, somatic metaphase. Bar represents 10 μ

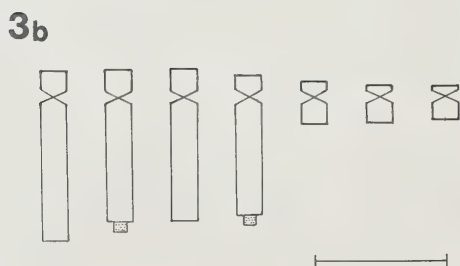


FIG. 3B.
A. variegata, haploid chromosome complement. Bar represents 10 μ , stippling indicates satellite regions.